



Application Number: 09/331,008
Title: Electronic zoom image input method
Inventor: Eriko Shimizu
Art Unit: 2615

Claims Sheet 1/2

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Corrected complete listing of claims

Claims 1-6 (canceled)

Claim 7 (currently amended); An electronic zoom image input method that enables zooming without degrading the resolution, by including the means for forming a compressed zoom input image by using the a fixed focus input image compressing optical system having a function of compressing the input image more largely as it moves to the circumferential part, receiving the compressed zoom input image by the image input device sensor providing preferably uniform pixel density, and processing the compressed zoom input image to reproduce zoom output images through the zoom image converting and correcting system by the conversion unit.

Claim 8 (currently amended); An electronic zoom image input method that enables zooming without degrading the resolution, by including the means for forming a compressed zoom input image by using the a fixed focus input image compressing optical system having a function of compressing the circumferential part of the input image in logarithmic function, receiving the compressed zoom input image by the image sensor, and processing the compressed zoom input image to reproduce output images through the zoom image converting and correcting system by the conversion unit.

Claim 9 (currently amended); An electronic zoom image input method claimed in claim 7, that has the a fixed focus input image compressing optical system where the compression of the circumferential part of the input image is limited to the vertical and horizontal direction.

Claim 10 (currently amended); An electronic zoom image input method claimed in claim 7, that has a an image input device sensor with a rectangular input image plane, and an a fixed focus input image compressing optical system with the a function of compressing the circumferential part of the input image to all direction, and compressing the neighboring part of the vertical and horizontal axes of the input image.

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Claim 11 (currently amended) ; An electronic zoom image input method claimed in Claim 7, or claim 8, or claim 9, or claim 10, where ~~the~~ a fixed focus input image compressing optical system that compresses the circumferential part of the input image is included as the attachment optical system.

Claim 12 (currently amended) ; An electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10, that is ~~capable to change the~~ has a different zooming range, ~~having attachment conversion lenses to change the focal length of the image input optical system~~ by mounting a attachment conversion lens to the fixed focus input image compressing optical system to change its total focal length.

Claim 13 (currently amended) ; A 3D electronic zoom image input method whose right and left image input optical systems are organized by fixed focus input image compressing optical systems of the electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10.